

Summary Table

Course	Cost per Section (2019)	Cost per Section (2024/2025)	Inflationary Increase per Section	Annual Cost Increase
Bio 131	\$9,146	\$9,923	\$777	\$12,432
Bio 140	\$9,813.10	\$10,096	\$282.90	\$4,526.40
Bio 152	\$11,574	\$15,445	\$3,871	\$15,484
Bio 230	\$15,813.44	\$22,932	\$7,118.56	\$28,474.24

| Total Annual Cost Increase Across All Courses | \$60,916.64 |

**Excel spreadsheet available upon request. On the next pages is a break down of supplies required for each course per section.

Biology 131: Individual Section Cost Outline

Lab#1: Intro to the Scientific Inquiry

Description	Quantity	Cost Ea.(2019	Extended	Cost Ea.(2024)	Extended
Candles	8	4	32	7	56
Cobalt Blue Paper	8	10	80	15	120
Plastic Bags	8	5	40	9	72
Filter Paper	1	5	5	8	8
Matches	8	4	32	7	56
Bromothymol Blue	2	20	40	45	90
Straws	2	3	6	6	12

Lab#2: Tools of Scientific Inquiry

Description	Quantity	Cost Ea.(2019	Extended	Cost Ea.(2024)	Extended
Shells	1	15	15	20	20

Lab#3: Unseen World, Part 1

Description	Quantity	Cost Ea.(2019	Extended	Cost Ea.(2024)	Extended
Elodea (Live)	1	39	39	79	79
Paramecium (live)	2	8	16	17	136
Euglena (Live)	2	8	16	17	34
Toothpicks	2	5	10	9	18
Methylene Blue	1	20	20	29	29

Lab#4: Unseen World, Part 2

Description	Quantity	Cost Ea.(2019	Extended	Cost Ea.(2024)	Extended
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Live Pond Water	2	40	80	79	158
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Lab#5: Animailia

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Vinegar eels	1	10	10	22	22

Lab#6: Fetal Pig

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Fetal Pigs	8	25	200	49	392
Scalpel Blades	8	5	40	12	72
Dissections Pins	1	30	30	80	80

Lab#7: Molecules of Life

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Heavy Cream	1	5	5	11	11
Apple Juice	1	4	4	12	12
Egg Whites	1	5	5	15	15
Potato Flakes	1	5	5	8	8
Tofu	1	5	5	12	12
Crackers	1	5	5	9	9
Corn Oil	1	5	5	12	108
Biuret Reagent	2	15	30	25	50
Benedicts Reagent	2	15	30	25	50
Lugols Iodine	2	20	40	30	60
BSA	2	40	80	60	120
Glucose	1	15	15	25	25
Potato Starch	1	15	15	25	25

Peach Preserves	1	5	5	15	15
Gelatin	1	10	10	15	15
Boiling Chips	1	35	35	55	55

Lab#8: The Plasma Membrane

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Dialysis Clips	8	80	640	120	960
Salt (NaCl)	1	5	5	10	10
Glucose Dipsticks	8	10	80	30	240
Sheep Blood	1	95	95	180	180
Pasteur Pipets	1	15	15	30	30
Pipet Bulbs	1	15	15	35	35
Dialysis Tubing	1	200	200	400	400
Glucose	1	15	15	25	25
					15
Sucrose	1	3	3	15	
Potato Starch	1	15	15	25	25

Lab#9: Introduction to Enzyme Reactions

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Biolfuel Lab Kit	1	130	130	190	190

Lab#10: Photosynthesis

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Mixed Lettuce	1	5	5	10	10
Spinich	1	5	5	10	10

Lab#11: Respiration

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Mealworms	1	10	10	25	25
Snow Peas	1	15	15	15	15

Lab#12: Introduction to Genetics and Cell Division

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Pipe Cleaners	2	10	20	15	30

Lab#13: Meiosis and Reproduction

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Pipe Cleaners	2	10	20	15	30

Lab#14: DNA, It's All in Our Genes

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended	
DNA Lab Kit	1	130	130	190	190	
E-Gels		2	75	150	140	280

Lab#15: DNA, Genes, Chromosomes and Cancer

Description	Quantity	Cost Ea.(2019)	Extended	Cost Ea.(2024)	Extended
Dishsoap	2	5	10	25	50
Split Peas	2	4	8	10	20
Meat Tenderizer	2	5	10	12	24
Salt (NaCl)	1	5	5	10	20

Sub-Total 2606

Common Supplies to All Bio. 131 Sections (Stock Items Needing Periodic Replacement)

Description	Quantity	Cost Ea.(2019)	Extended Cost Ea.(2019)	Extended Cost Ea.(2024)	Extended Cost Ea.(2024)
Slides	4	20	80	45	180
Depression Slides	4	20	80	45	180
Protoslo	4	15	60	30	120
Lens Paper	4	5	20	15	60
Rulers	8	3	24	15	120
Wax Pencils	8	7	56	15	120
Chromatography Paper	1	40	40	90	90
Weigh Boats	8	5	40	10	80
Isopropyl Alcohol	1	20	20	35	35
Hexanes	1	20	20	35	35
Acetone	1	20	20	35	35
Dropper Bottles	2	200	400	400	800
Disposable Xfer Pipets	4	38	152	65	260
Gloves (S/M/Lg.)	2	600	1200	900	180
Dissection Probes	8	5	40	15	120
Scissors	8	5	40	15	120
Misc. Test Tubes	2	80	160	120	240
Lab Tape	8	55	440	80	840
Sharpies	8	4	32	10	80
Laminate Paper	1	100	100	150	150
Multi Purpose paper	4	40	160	80	320
Toner	5	150	750	180	900
Total			9146		9923

Biology 140: Individual Section Cost Outline

Consumables Only*

Description	Quantity	Cost Ea.(2019)	Extended	Quantity	Cost Ea.(2024)	Extended
Cadavers	2	3135	6270	2		7504
Cats	7	68	476	0		0
Sheep Eyes	30	2.25	67.5	32	4	128
Sheep Brains	28	22.55	631.4	32	42	1344
Sheep Hearts	28	13.15	368.2	32	35	1120
Miscellaneous Expenditures			2000			4000
Total			9813.1			10096

Biology 152: Individual Section Cost Outline

Description	Quantity	Cost (2019)	Extended	<u>Cost (2024)</u>	<u>Extended</u>
Nitrate A Reagent	8	15	120	30	240
Nitrate B Reagent	9	15	135	30	270
Nitrate C Reagent	9	15	135	30	270
Indole Kovac's Reagent	5	25	125	45	225
Voges-Proskauer Reagent A	10	65	650	80	720
OxyStrips	8	35	280	50	400
Blood Agar	11	45	495	65	715
Petri Dish with Stacking Ring, Sterile	8	88	704	98	784
Mannitol Salt Agar	5	93	465	125	625
Fluid Thioglycollate Media	4	88	352	98	392
Tryptic Soy Agar (TSA)	8	85	680	98	784
Tryptic Soy Broth (TSB)	6	55	330	68	408
Methyl Red Test Reagent	6	45	270	65	390

Carbol Fuchsin, Ziehl-Neelsen	6	45	270	65	390
Malachite Green	4	35	140	45	180
Anaerobic Gas Generator	6	85	510	95	570
AST Chloramphenicol	4	55	220	60	240
AST Penicillin	4	55	220	60	240
AST Streptomycin	4	55	220	60	240
AST Tetracycline	4	55	220	60	240
AST Trimethoprim	4	55	220	60	240
Urea Broth Difco	5	65	325	80	400
Immersion Oil, Type A	8	25	200	35	280
Pipet, Transfer, Disposable, Sterile	4	65	260	80	320
3M™ Attest™ Steam Biological Indicator	4	140	560	180	720
Bunsen Burners	6	40	240	60	360
Sterile Loops	4	47	188	83	332
Culture Tubes (Case)	3	380	1140	470	1410
Culture Tube Caps	8	25	200	65	520
Lab Tape	8	45	360	70	560
Weigh Boats	4	35	140	45	180
Nitrile Gloves	3	400	1200	600	1800
Total			11574		15445

**Biology 230:
Individual
Section Cost
Outline**

Description	Quantity	Cost Ea. (2019)	Extended	Cost Ea. (2025)	Extended
GFP Kit	1	120	120	175	175
GFP Purification Kit	1	130	130	175	175
CRISPR Kit W/Genomic Extension	1	0	0	510	510
BSA Standard	4	80	320	125	500
Bradford Stain Concentrate	2	115	230	145	290
SDS-Page Gels Precision Plus Kalwidoscope Standard	10	15	150	210	2100
Coomassie Stain	4	20	80	45	180
TGS Running Buffer	2	20	40	55	110
Long Wave UV Lamps	6	15	90	35	210
TAE Running Buffer	2	15	30	40	80
TE Buffer	2	15	30	40	80
DNA Stain	2	10	20	25	50
SYBR Safe Stain	6	63	378	90	540
Mushroom Variety	6	5	30	10	60
Biolfuel Lab Kit	1	125	125	175	175
DNA Lab Kit	1	130	130	165	165
Agarose Gels	10	8	80	18	180
Dry Ice	1	10	10	40	40

VWR EHP Pipettors (0.5uL - 10uL)	6	359.5	2157	440	2640
VWR EHP Pipettors (10uL - 100uL)	5	359.5	1797.5	440	2200
VWR EHP Pipettors (100uL - 1000uL)	2	359.5	719	440	880
0.5uL - 10uL Pipette Tips (Various)	2	1200	2400	1600	3200
10uL - 100uL Pipette Tips (Various)	2	1245	2490	1600	3200
100uL - 1000uL Pipette Tips (Various)	2	612	1224	800	1600
EZ Load Molecular Ruler	2	115	230	185	370
Thermo GeneJet PCR Cleanup Kit	2	331	662	395	790
Qiagen Blood and Tissue Kit	2	161	322	185	370
Sterile 1.5 Microfuge Tubes	2	65.99	131.98	88	176
95% Ethanol	2	68.33	136.66	98	196
PCR Workstation Rack	2	84.65	169.3	110	220
PCR Tubes	2	105.5	211	120	240
Sequencing at Eaton Bioscience	1	500	500	500	500
Custom forward & reverse Oligos	2	200	400	200	400

Total			15813.44		22932
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